

**Notice of Allowability**

Application No.

09/901,134

Examiner

Perez M. Angelica

Applicant(s)

TAKAYAMA ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 01/12/2005.
2. ☒ The allowed claim(s) is/are 1-3,5,6,9-15, 18-23 and 26-30.
3. ☒ The drawings filed on 10 July 2001 and 23 June 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

**In the claims:**

The application has been amended as follows:

Claims 11 and 14 will claim dependency on claim 1.

Claim 20 will maintain dependency on adjusted claim 11.

Claims 16 and 17 will be cancelled.

***Reasons for allowance***

1. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art shows a high-speed roaming method of a wireless LAN comprising: a network; a plurality of access-points provided in the network; and a mobile terminal that is radio-connected to one of the plurality of access points via a communication system using a frequency hopping, where each of the access points: registers previously a predetermined number of access points out of respective neighboring access points as neighboring access points; sends out hopping information thereof periodically to the network at mutually different timings; receives the hopping information of the neighboring access points out of the respective neighboring access points to construct a database; and where the mobile terminal: monitors the radio beacons of a connected access point and downloads hopping information of the neighboring access points from the connected access point; monitors radio beacons of the neighboring access points based on the hopping information; constructs the hopping information as a mobile terminal database to continuously compare radio environments;

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and selects and connects an access point having a best radio situation by referring the mobile terminal database of said neighboring access points when a quality of the radio beacon of said connected access point is reduced lower than a predetermined value, where, when the mobile terminal is not connected to the access point having a best radio situation, the mobile terminal is connected subsequently to an access point having a second best radio situation.

The previous art fails to teach of **synchronizing all of the access points in a same subnet of the network and sending out radio beacons synchronously from the access points.**

Claims 2-23 and 26-30 are dependent upon claim 1; therefore, the examiner gives the same reasons for allowance as discussed in claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


**Conclusion**

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angelica Perez whose telephone number is 703-305-8724. The examiner can normally be reached on 7:15 a.m. - 3:55 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and for After Final communications.

Information regarding Patent Application Information Retrieval (PAIR) system can be found at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

  
Angelica Pérez  
(Examiner)

  
NAY MAUNG  
SUPERVISORY PATENT EXAMINER

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February 11, 2005